In the Claims:

Please amend the claims as shown in the following listing of claims, which will replace all prior versions and listings of claims in the application.

- (Currently Amended) Apparatus for controlling a plurality of detonators comprising:
 a central command station adapted to transmit one or more for transmitting at least one command signals
 - one or more at least one blasting machines machine in signal communication with both the central command station and a at least one group of detonators, each said at least one blasting machine including means for generation of being able to (a) generate a data package comprising a randomly generated access code, means for receiving one or more (b) receive at least one command signals signal and one or more at least one data packages package transmitted by the central command station, and means for comparing (c) compare generated and received data packages; and
 - one or more at least one authorization keys key adapted for: (a) physical association physically associatable with one or more said at least one blasting machine, (b) for direct transfer to and storage of each said at least one data package, and (c) physical transfer physically transferable from the one or more said at least one blasting machines machine to the central command station for delivery of the stored said at least one data package(s) package to the central command station;

whereby wherein the central command station, after receiving the said at least one data package(s) package from the said at least one authorization key(s) key transmits one or more the at least one command signals signal and the said at least one data package(s) package to the said at least one blasting machine machine.

- 2. (Currently Amended) The apparatus according to claim 1, wherein any one said at least one data package further comprises a unique identification code corresponding to the blasting machine that generated said any one said at least one data package.
- 3. (Currently Amended) The apparatus according to claim 1, wherein the central command station transmits the said at least one data package(s) package and the said at least one command signal(s) signal to the said at least one blasting machine(s) machine simultaneously.
- 4. (Currently Amended) The apparatus according to claim 1, wherein the central command station transmits the said at least one data package(s) package and the said at least one command signal(s) signal to the said at least one blasting machine(s) machine sequentially.
- 5. (Currently Amended) The apparatus according to claim 1, wherein the central command station further includes encryption means, and each said at least one blasting machine further includes descrambling means, so that the one or more said at least one command signals signal and / or the one or more transmitted said at least one data packages package or both said at least one command signal and said at least one data package are encrypted by the encryption means upon transmission from the central command station, and descrambled by the descrambling means upon receipt by each said at least one blasting machine.
- 6. (Currently Amended) The apparatus according to claim 5, wherein the one or more said at least one command signals signal and / or the one or more said at least one data packages package or both said at least one command signal and said at least one data package are encrypted by 32 bit encryption.
- 7. (Currently Amended) The apparatus according to claim 1, wherein the randomly generated access eodes are code of said at least one data package is active for a single blasting event.

- 8. (Currently Amended) The apparatus according to claim 1, wherein the randomly generated access eodes are code of said at least one data package is active within a predetermined time window, outside of which the one or more said at least one blasting machines machine will not respond to the one or more said at least one command signals signal and the one or more said at least one data packages package transmitted by said central command station.
- 9. (Currently Amended) The apparatus according to claim 1, wherein the central command station is located remote from the one or more said at least one blasting machines machine and said detonators.
- 10. (Currently Amended) The apparatus according to claim 9, wherein the one or more said at least one blasting machines machine and the central command station are in radio-signal communication.
- 11. (Currently Amended) The apparatus according to claim 1, wherein the one or more said at least one group of detonators are is in signal communication with the one or more said at least one blasting machines machine via low energy detonation cord, shock tube, or electrical connection.
- 12. (Currently Amended) The apparatus according to claim 1, wherein the one or more said at least one authorization keys key comprises a single authorization key transferable between the one or more said at least one blasting machines machine for storing each of the one or more said at least one data packages package.
- 13. (Currently Amended) The apparatus according to claim 1, wherein the said at least one command signals include signal is selected from the group consisting of ARM, FIRE, or and DISARM signals.
- 14. (Currently Amended) The apparatus according to claim 13, wherein the each FIRE signals are signal is specific for each detonator or each group of detonators, each FIRE signal

including a delay component to specify a firing delay for each detonator or each group of detonators thereby determining a firing sequence for the detonators.

15. (Currently Amended) The apparatus according to claim 1, further comprising:

a master key including a memory for storing detonator firing codes;

wherein each of said detonators includes a include built-in firing eode codes, and association of said master key with said central command station permits transfer of stored detonator firing codes to said central command station for transmission to said one or more said at least one blasting machines machine, said one or more said at least one blasting machines machine each including means for relaying being able to relay said detonator firing codes to said detonators, any one said at least one blasting machine relaying said detonator firing codes and said at least one command signals signal only if one of the a data packages package received from the central command station is the same as the data package originally generated by said any one said at least one blasting machine, each detonator said detonators firing only if one of said relayed detonator firing codes relayed from an associated blasting machine is are the same as said built-in firing eode codes for said any one detonator said detonators.

- 16. (Currently Amended) A method of controlling a plurality of detonators, the method comprising the steps of:
 - (a) providing a central command station adapted to transmit for transmitting at least one command signals signal;
 - (b) providing one or more at least one blasting machines each machine in signal communication with a at least one group of detonators and the central command station, said at least one blasting machine being able to (i) generate a data package comprising a randomly generated access code, (ii) receive at least one command signal and at least one data package transmitted by the central command station, and (iii) compare generated and received data packages;
 - (c) generating a data package in each blasting machine, each data package comprising a randomly generated access code;
 - (d) providing one or more at least one authorization keys each authorization key adapted

for: (a) physical association key physically associatable with one or more said at least one blasting machine, (b) for direct transfer to and storage of each said at least one data package, and (c) physical transfer physically transferable from the one or more said at least one blasting machines machine to the central command station for delivery of the stored said at least one data package(s) package to the central command station;

- (e) transferring each said at least one authorization key from said one or more at least one blasting machines machine to said central command station;
- (f) inputting each said at least one data package from said one or more at least one authorization key to said central command station; and
- (g) transmitting one or more said at least one command signals signal together with said one or more at least one data packages package from said central command station to said one or more at least one blasting machines machine, any one said at least one blasting machine responding to said one or more at least one command signals signal only if one of the a data packages package received from the central command station is the same as the data package originally generated by said any one said at least one blasting machine.
- 17. (Currently Amended) The method according to claim 16, wherein any one said at least one data package further comprises a unique identification code corresponding to the blasting machine that generated said any one said at least one data package.
- 18. (Currently Amended) The method according to claim 16, wherein in step (g) the central command station transmits the said at least one data package(s) package and the said at least one command signal(s) signal to the said at least one blasting machine(s) machine simultaneously.
- 19. (Currently Amended) The method according to claim 16, wherein in step (g) the central command station transmits the <u>said at least one</u> data <u>package(s)</u> <u>package</u> and the <u>said at least one</u> command <u>signal(s)</u> <u>signal</u> to the <u>said at least one</u> blasting <u>machine(s)</u> <u>machine</u> sequentially.

- 20. (Currently Amended) The method according to claim 16, wherein in step (g) the one or more said at least one command signals and / signal or the one or more transmitted said at least one data packages package, or both said at least one command signal and said at least one data package are encrypted upon transmission by the central command station, and descrambled upon receipt by each said at least one blasting machine.
- 21. (Currently Amended) The method according to claim 20, wherein in step (g) the one or more said at least one command signals and / signal or the one or more said at least one data packages package, or both said at least one command signal and said at least one data package are encrypted by 32 bit encryption.
- 22. (Currently Amended) The method according to claim 16, wherein the randomly generated access codes are code of said at least one data package is active for a single blasting event.
- 23. (Currently Amended) The method according to claim 16, wherein the randomly generated access codes are code of said at least one data package is active within a predetermined time window, outside of which the said at least one blasting machine will not respond to said one or more at least one command signals signal and said one or more at least one data packages package transmitted by said central command station.
- 24. (Currently Amended) The method according to claim 16, wherein the central command station is located remote from said one or more at least one blasting machines machine and said one or more detonators.
- 25. (Currently Amended) The method according to claim 24, wherein the one or more said at least one blasting machines machine and the central command station are in radio-signal communication.

- 26. (Currently Amended) The method according to claim 16, wherein each said at least one group of detonators is in signal communication with each said at least one blasting machine via low energy detonation cord, shock tube, or electrical connection.
- 27. (Currently Amended) The method according to claim 16, wherein the one or more said at least one authorization keys key comprises a single authorization key transferable between the one or more said at least one blasting machines machine and the central command station for storing each of the one or more said at least one data packages package.
- 28. (Currently Amended) The method according to claim 16, wherein in step (g) the one or more said at least one command signals include signal is selected from ARM, FIRE, or and DISARM signals.
- 29. (Currently Amended) The method according to claim 28, wherein in step (g) the each FIRE signals are signal is specific for each detonator or each group of detonators, each FIRE signal including a delay component to specify a firing delay for each detonator or each group of detonators thereby determining a firing sequence for the detonators.
- 30. (Currently Amended) A method of controlling initiation of a plurality of detonators each having a unique built-in firing eode codes, the method comprising the steps of:
 - (a) providing a central command station for transmitting at least one command signal;
 - (b) providing one or more at least one blasting machines each machine in signal communication both with a at least one group of detonators and the central command station, said at least one blasting machine being able to (i) generate a data package comprising a randomly generated access code, (ii) receive at least one command signal and at least one data package transmitted by the central command station, and (iii) compare generated and received data packages;
 - (c) generating a <u>at least one</u> data package in each <u>said at least one</u> blasting machine, each said at least <u>one</u> data package comprising a randomly generated access code;
 - (d) providing one ore more at least one authorization keys each authorization key adapted

for: (a) physical association key physically associatable with one or more said at least one blasting machine, (b) for direct transfer to and storage of each said at least one data package, and (c) physical transfer physically transferable from the one or more said at least one blasting machines machine to the central command station for delivery of the stored said at least one data package(s) package to the central command station;

- (e) transferring each said at least one authorization key from said one or more at least one blasting machines machine to said central command station;
- (f) inputting each said at least one data package from said one or more at least one authorization keys key to said central command station;
- (g) providing a master key including a memory for storing detonator firing codes;
- (h) transferring the detonator firing codes from the master key to the central command station; and
- (i) transmitting one or more said at least one command signals signal, the detonator firing codes, and said one or more at least one data packages package from said central command station to said one or more at least one blasting machines machine, any one said at least one blasting machine relaying said detonator firing codes and said at least one command signals signal to the associated said detonators only if one of the a data packages package received from the central command station is the same as the data package originally generated by said any one said at least one blasting machine, each detonator the detonators firing only if one of said relayed detonator firing codes relayed from an associated said at least one blasting machine is are the same as said built-in firing codes for said any one detonator said detonators.
- 31. (Currently Amended) The method according to claim 30, wherein any one said at least one data package further comprises a unique identification code corresponding to the blasting machine that generated said any one said at least one data package.

- 32. (Currently Amended) The method according to claim 30, wherein in step (i) the central command station transmits the detonator <u>firing</u> codes, the <u>said at least one</u> data <u>package(s)</u> <u>package</u> and the <u>said at least one</u> command <u>signal(s)</u> <u>signal</u> to the <u>said at least one</u> blasting <u>machine(s)</u> machine simultaneously.
- 33. (Currently Amended) The method according to claim 30, wherein in step (i) the central command station transmits the detonator <u>firing</u> codes, the <u>said at least one</u> data <u>package(s)</u> <u>package</u> and the <u>said at least one</u> command <u>signal(s)</u> <u>signal</u> to the <u>said at least one</u> blasting <u>machine(s)</u> machine sequentially.
- 34. (Original) The method according to claim 30, wherein the master key further stores user identification information for recognition by said central command station.
- 35. (Currently Amended) The method according to claim 30, wherein the detonator firing codes comprise detonator identification codes and / or detonator delay times, or both detonator identification codes and detonator delay times.